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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,379	08/01/2003	Fu-Liang Yang	67,200-377	4157
7590 03/27/2004			EXAMINER	
TUNG & ASSOCIATES			FARAHANI, DANA	
Suite 120 838 W. Long Lake Road			ART UNIT	PAPER NUMBER
Bloomfield Hill			2814	
			DATE MAILED: 03/27/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/632,379	YANG, FU-LIANG
Office Action Summary	Examiner	Art Unit
	Dana Farahani	2814
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a repl ply within the statutory minimum of thirty (d will apply and will expire SIX (6) MONTH tte, cause the application to become ABAN	ly be timely filed 30) days will be considered timely. IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).
Status		
 1) ⊠ Responsive to communication(s) filed on 01 √ 2a) ☐ This action is FINAL. 2b) ⊠ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under 	is action is non-final. ance except for formal matter	
Disposition of Claims		
4) ☐ Claim(s) 1-14 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdres 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-14 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		,
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) according and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examination.	ccepted or b) objected to by e drawing(s) be held in abeyance ction is required if the drawing(s)	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures * See the attached detailed Office action for a list	nts have been received. nts have been received in Apporting documents have been re au (PCT Rule 17.2(a)).	plication No eceived in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 8/1/03 	Paper No(s)/	mmary (PTO-413) Mail Date ormal Patent Application (PTO-152)

Art Unit: 2814

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, 6, 8, 9, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Gibson et al., hereinafter Gibson (US Patent 6,274,896).

Regarding claims 1, 6, 8, and 13, Gibson discloses in figure 2, a field effect transistor (FET) device comprising a surface of the channel region (below gate 16) being corrugated.

Regarding claims 2 and 9, the (FET) device is selected from the group consisting of metal oxide semiconductor field effect transistor (MOSFET) devices and metal semiconductor field effect transistor (MESFET) devices (see column 3, line 33).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3, 7, 10, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gibson.

Gibson substantially discloses the claimed invention, except for the longitude peak and the depth of the curved channel region.

Note that the specification contains no disclosure of either the critical nature of the claimed dimensions of any unexpected results arising therefrom. Where patentability is aid to be based upon particular chosen dimensions or upon another variable recited in a claim, the Applicant must show that the chosen dimensions are critical. In re Woodruff, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936 (Fed. Cir. 1990).

Allowable Subject Matter

- 5. Claims 4, 5, 11 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- The following is a statement of reasons for the indication of allowable subject 6. matter:

The primary reason for indication of allowability of claims 4, 5, 11 and 12 is the limitation that of a portion of the gate electrode is corrugated.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dana Farahani whose telephone number is (571)272-1706. The examiner can normally be reached on M-F 9:00AM - 6:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael M Fahmy can be reached on (571)272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Farahani

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